

Carnegie Mellon University Online Learning Initiative

Accelerating Sustainability



Online Learning Challenges

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Chemistry

Communication

Why Do This?

- Chemists are trained to create remarkable molecules ...
- That do remarkable things ...
- But without much thought about what they may do to they environment or human health ...
- Green, sustainable science is all about designing the hazards out of molecules and chemical processes from the get go.

Accelerating the Process

Traditional Approach



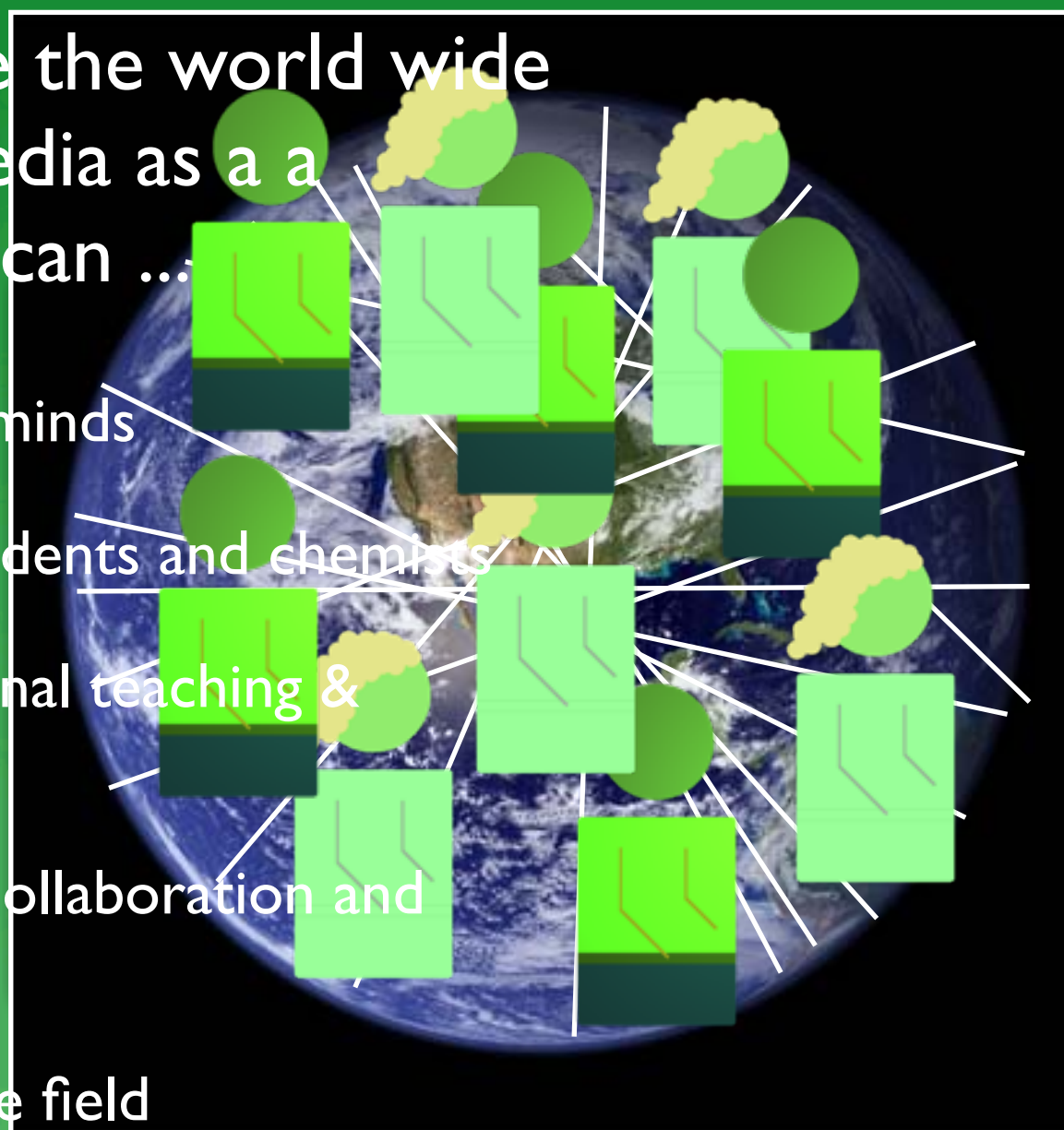
Accelerating the Process

Virtual Approach

- Go online and use the world wide web to obtain social media as a learning board that can ...

social media as

- Accelerate changing minds
- a learning tool
- that can reach more students and chemists
- Complement traditional teaching & training
- Generate increased collaboration and communication
- Generally advance the field



What We've Been Up To ...

Have created this development www.igsdev.net



Online Presentation

This part of the presentation will walk through the “learning engine” online.



The screenshot displays the homepage of The Institute for Green Science. The header features the organization's name in green and black, with navigation links for 'Join Us / Login', 'Learning Green', and a search bar. A horizontal menu below the header includes links for 'About Us', 'Our Research', 'A Sustainable World', 'Learning Green', 'Partners', and 'Media Room'. The main banner image shows a green globe with a molecular structure overlaying a landscape of green fields and blue skies with clouds. The text 'GREEN SCIENCE' is prominently displayed in white, with the tagline 'Creating a World We Can Live With' underneath. Below the banner, a section titled 'Science Serving Sustainability' provides a brief description of the institute's mission and a link to learn more. The lower portion of the page is divided into three columns. The left column, 'Learning Green', features a beaker icon and discusses the need for sustainable technology training. The middle column, 'Building a Sustainable World', features a globe icon and discusses the development of green technologies. The right column, 'News and Breakthroughs', features a baby bottle icon and includes a news item about a study linking BPA to disease, along with a list of other news items. Each of these three columns has a 'learn more' button at the bottom.

THE INSTITUTE FOR
greenscience

Join Us / Login Learning Green

Enter Search Term
search

About Us Our Research A Sustainable World Learning Green Partners Media Room

GREEN SCIENCE
Creating a World We Can Live With

Science Serving Sustainability
The Institute for Green Science is dedicated to the intellectual growth and technical training of a new generation of ethically aware professionals who understand and practice sustainable science — from the molecular level on up. [» Learn more about the Institute for Green Science](#)

Learning Green
Students and scientists can't be expected to develop technologies that are sustainable unless they are provided with the training to do so. Because traditional university classes in the United States don't provide these tools, we are creating them ... [learn more](#)

Building a Sustainable World
It's one thing to talk about change and another to make it happen. The Institute for Green Science focuses on the development of green technologies, products and processes that lead to a sustainable future, and work in the real world ... [learn more](#)

News and Breakthroughs RSS PODCAST

Study Links BPA and Disease
Results published in JAMA link BPA with diabetes and heart disease. [» READ MORE](#)

Other News

- Rachel Carson Conference: Managing Our Risks
- California wiki to form green chem laws
- New report on state of green business

Moving Ahead

- Change is necessary
- Change must come in many flavors and from many directions
- This is one way we hope to amplify the change that is needed
- A long time ago ...

Moving Ahead

... a great scientist
named Archimedes
said...

“Give me a lever, I
will move the
world...”

